PATENT COOPERATION TREATY

From the: INTERNATIONAL SEARCHING AUTH	ORITY				
To: Davies Collison Cave GPO Box 3876	DCC (Sydney) Mail Rcvd	PCT			
SYDNEY NSW 2001	2 3 AUG 2004 ARNO processed by	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORI	TY		
	on 23 105 101	(PCT Rule 43bis.1) Date of mailing 2.0 AUG 2004			
	· nisc DC	day/month/year) 2 0 AUG 2004	1		
Applicant's or agent's file reference 12262441	20 12 0 Ho H	FOR FURTHER ACTION See paragraph 2 below			
International application No.	International filing date				
PCT/AU2004/000798	18 June 2004	20 June 2003			
International Patent Classification (IPC) or both national classification and IPC 1. Cl. 7 C07K 14/62, C07K 14/64, C07K 14/65, C07K 14/575, A61K 38/22, A61K 38/28, A61K 38/30, A61P 3/10, A61P 15/00, A61P 15/08, A61P 15/14, A61P 19/00, A61P 35/00 Applicant					
HOWARD FLOREY INSTIT	TUTE OF EXPERIMEN	NTAL PHYSIOLOGY & MEDICINE et al			
1. This opinion contains indications relating to the following items: X Box No. I Basis of the opinion					
3. For further details, see notes to Form PC	T/ISA/220.				
ame and mailing address of the IPEA/AU Authorized Officer					
AUSTRALIAN PATENT OFFICE		. 5.			
PO BOX 200, WODEN ACT 2606, AUSTR E-mail address: pct@ipaustralia.gov.au		DAVID GRIFFITHS			
Facsimile No. (02) 6285 3929		elephone No. (02) 6283 2628			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/000798

Be	x No. I	Basis of the opinion				
1.	With regar	d to the language, this opinion ha as filed, unless otherwise indicated	s been established on d under this item.	the basis of the inte	ernational application in	the language in
	the fo	opinion has been established on the ellowing language lational search (under Rules 12.3 a	, which is the langua	n from the original age of a translation in	language into furnished for the purpo	ses of AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
2.	With regar	d to any nucleotide and/or amino vention, this opinion has been esta	o acid sequence disclebished on the basis o	osed in the internati	onal application and ne	cessary to the
	a. type of	material		٠		Q
	X	sequence listing				<u> </u>
	t	able(s) related to the sequence list	ing			~
•	b. format	of material		*		
٠.	X i	n written format				•
	i li	n computer readable form	٠			
	c. time of	filing/furnishing				
		ontained in the international applic		•		9
		led together with the international				
	<u>n</u>	urnished subsequently to this Auth	ority for the purposes	of search.		
3.	In add	ition, in the case that more than or	ne version or copy of	a sequence listing a	nd/or table relating ther	eto has been
	in the	r furnished, the required statement application as filed or does not go	beyond the application	in the subsequent on as filed, as approp	or additional copies is i priate, were furnished.	dentical to that
4.	Additional of					•
٠,٠	Additional	onunents.				
						*
					·	
					• •	
					·	*
						•
						İ

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/000798

Box No. V Reaso applie	ned statement under Rule 43bis.1(a)(i) with regard ability; citations and explanations supporting such	to novelty, inventive step or industrial statement
1. Statement		
Novelty (N	Claims 1 - 49	YES
•	Claims	NO
Inventive st	ep (IS) Claims 1 - 49	YES NO
	Claims	NO
Industrial ap	plicability (IA) Claims 1 - 49	YES
	Claims	NO
· · · · · · · · · · · · · · · · · · ·		

2. Citations and explanations:

The present application relates to monomeric cyclic analogues of the B-chain of relaxin superfamily proteins that bind to a biological target of the relaxin superfamily protein and modulate the activity of the target. Methods of making the analogues and their uses are also claimed.

This opinion is based on the following citations:

- D1. International Journal of Peptide & Protein Research (1982), 20(3), 207-17;
- D2. Chem. Pept. Proteins, Proc. USSR-FRG Symp., 3rd (1982), Meeting Date 1980, 327-35;
- D3. Doklady Bolgarskoi Akademii Nauk (1976), 29(11), 1641-4.

Documents D1 and D2 discloses cyclic insulin B-chain derivatives for use in semi-synthesis; D3 discloses, amongst other things, a dithiolated cross-linked cyclic monomer of the insulin B-chain in the context of structure elucidation. None of the citations discloses the derivatives binding to biological targets to result in biological activity. The present claims must therefore be acknowledged as being novel and inventive over the citations.

All claims meet the criterion of being industrially applicable.